Name: ­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Atoms & Elements

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**Sorted!!**

Can you name 3 materials that can be recycled?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Can you name any metals that can be recycled?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Why is it a good idea to recycle materials?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

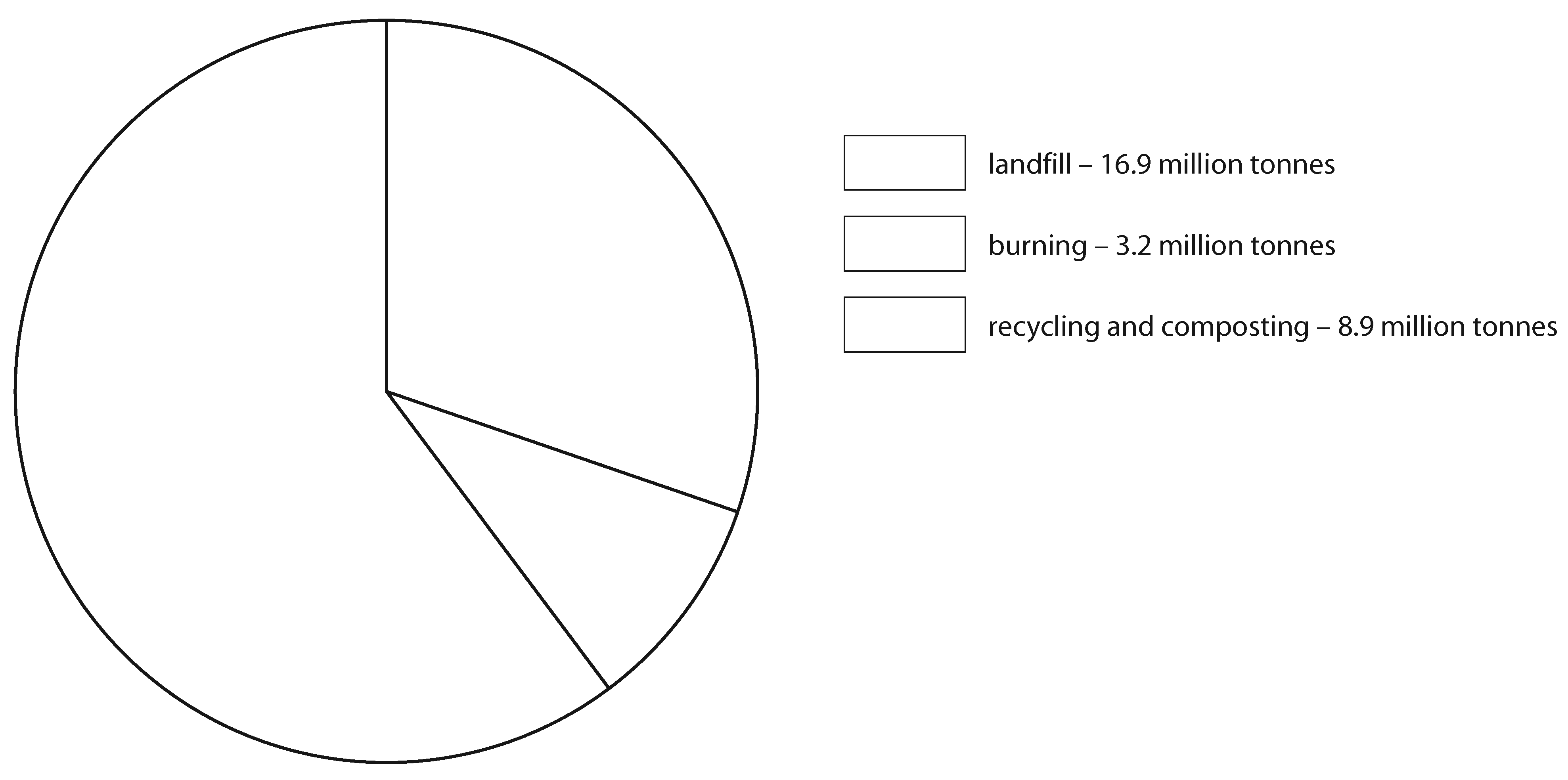
**Grouping materials**

Look at the variety of materials in front of you. Put them into groups, and then draw a table showing the different groups.

**How Much Do We Recycle?**

The chart shows the way that we deal with our waste.

**1** Use the figures to shade in the correct sections of the pie chart. Complete the key to show what your shading means.



**2** What happens to most of the waste?

Burned ⬜ sent to landfill ⬜ recycled ⬜ composted ⬜

**3** What was the total amount of waste produced in the year in millions of tonnes?

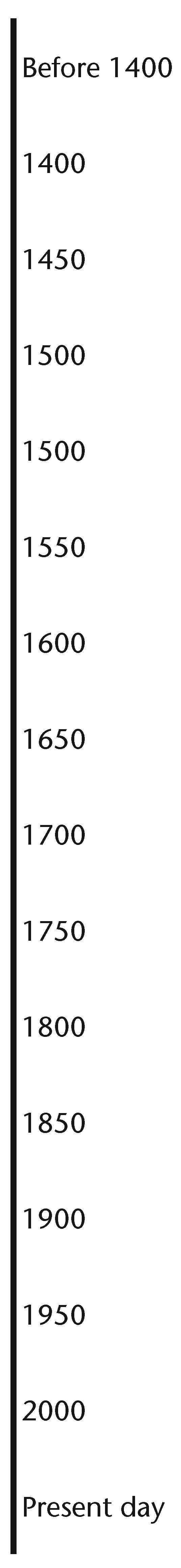
8.9 ⬜ 16.9 ⬜ 25.8 ⬜ 29.0 ⬜

**4** Roughly what percentage of the waste was burned?

10% ⬜ 30% ⬜ 50% ⬜ 70% ⬜

**5** Why is it a good idea to show the figures as a pie chart instead of a table?

**Elements Timeline**

**1** The elements in the table are shown in alphabetical order. Mark each element on the timeline to show when it was discovered.

|  |  |
| --- | --- |
| **Name of element** | **Date of discovery** |
| aluminium | 1825 |
| arsenic | 1649 |
| bromine | 1826 |
| calcium | 1808 |
| einsteinium | 1952 |
| cobalt | 1735 |
| gold | before Christian era |
| helium | 1895 |
| hydrogen | 1766 |
| oxygen | 1774 |
| phosphorus | 1669 |
| potassium | 1807 |
| radium | 1898 |
| silver | before Christian era |
| tungsten | 1783 |
| zinc | about 1480 |

**2** The electric battery was invented in 1799. Mark this date on your timeline.

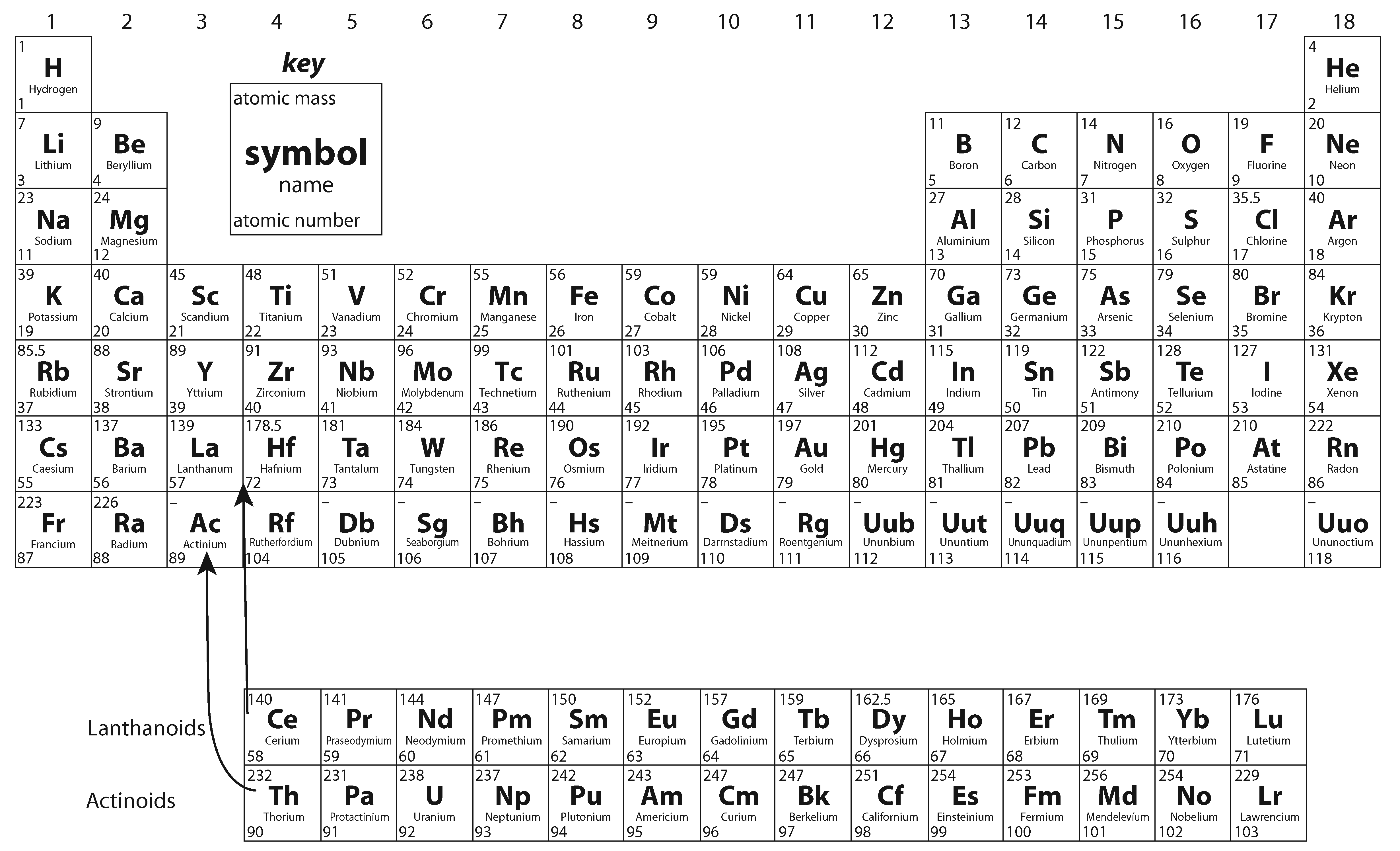
**3** Suggest the names of two elements that were discovered using the battery.

**i** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ii**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**The Periodic Table**



**Particle arrangement**

**­­­­­­­­­­­­­­­­­­­Gas**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Liquid**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Solid**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

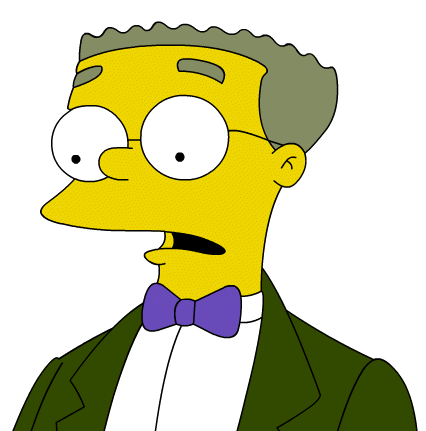
**Element Card-sort**

Cartoon Elements

Use the periodic table to find the symbols for the groups of elements below. Each group should spell a different cartoon character

Tungsten, oxygen, oxygen, dysprosium \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Phosphorus, iodine, nitrogen, nobelium, carbon, hydrogen, iodine, oxygen \_\_\_\_\_\_\_\_

Rhenium, platinum, argon \_\_\_\_\_\_\_\_\_\_\_

Sulphur, hydrogen, rhenium, potassium \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Argon, iodine, aluminium \_\_\_\_\_\_\_\_\_\_\_\_\_

Tin, oxygen, oxygen, phosphorus, yetrium \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Carbon, hydrogen, iodine, phosphorus \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Flourine, lithium, potassium \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Samarium, iodine, thorium, erbium, sulphur \_\_\_\_\_\_\_\_\_\_\_\_

Sulphur, cobalt, oxygen, boron, yetrium \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Boron, aluminium, oxygen, oxygen \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sulphur, lithium, nitrogen, potassium, yetrium \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Aluminium, iodine, cerium \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Oxygen, scandium, argon \_\_\_\_\_\_\_\_\_\_\_

Polonium, calcium, hydrogen, oxygen, nitrogen, tantalum, sulphur \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Phosphorus, iodine, potassium, actinium, hydrogen, uranium \_\_\_\_\_\_\_\_\_\_\_\_\_

Scandium, radium, technetium, hydrogen, yetrium \_\_\_\_\_\_\_\_\_\_\_\_\_

**Element homework**

**Metal wordsearch**

**Metals or non-metals**

|  |  |
| --- | --- |
| **Metal** | **Nonb-metal** |
|  |  |

**How did you decide which materials were metals?**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**What is a metal practical?**

**Making Compounds**

Copper and Oxygen­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Magnesium and Oxygen

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Iron and Chlorine

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Element –

Compound –

Molecule -

**Making Compounds**

**Homework**

**Getting sorted – again**

**Recycling Poster/Leaflet**